

=> b reg
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 DICTIONARY FILE UPDATES: 27 SEP 2007 HIGHEST RN 948530-59-4

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=> d que sta l10
 L6 STR

Hy~N~Hy~N~Hy
 1 2 3 4 5

NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED
 ECOUNT IS E9 C E1 N AT 1
 ECOUNT IS E4 C E2 N AT 3
 ECOUNT IS E9 C E1 N AT 5

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 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 5

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 L8 36708 SEA FILE=REGISTRY ABB=ON PLU=ON >=2 NC5-C6/ES
 L10 42 SEA FILE=REGISTRY SUB=L8 SSS FUL L6

100.0% PROCESSED 36708 ITERATIONS 42 ANSWERS
 SEARCH TIME: 00.00.01

=> d bib abs hitrn fhitr l13 1
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FILE COVERS 1907 - 28 Sep 2007 VOL 147 ISS 15
 FILE LAST UPDATED: 27 Sep 2007 (20070927/ED)

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=> d bib abs hitrn fhitr 113 1

L13 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2001:416931 HCAPLUS

DN 135:33495

TI Arylamine derivatives and their use as anti-telomerase agent

IN Mailliet, Patrick; Riou, Jean-Francois; Mergny, Jean-Louis; Laoui, Abdelazize; Lavelle, Francois; Petitgenet, Odile

PA Aventis Pharma S.A., Fr.

SO PCT Int. Appl., 66 pp.

CODEN: PIXXD2

DT Patent

LA French

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO2001040218	A1	20010607	2000WO-FR03310	20001127 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
FR---2801588	A1	20010601	1999FR-0015031	19991129 <--
FR---2801588	B1	20020301		
CA---2392507	A1	20010607	2000CA-2392507	20001127 <--
BR2000015992	A	20020806	2000BR-0015992	20001127 <--
EP---1244650	A1	20021002	2000EP-0985339	20001127 <--
EP---1244650	B1	20030625		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
HU-200204429	A2	20030428	2002HU-0004429	20001127 <--
JP2003515604	T	20030507	2001JP-0541902	20001127 <--
EE-200200263	A	20030616	2002EE-0000263	20001127 <--
AT---243692	T	20030715	2000AT-0985339	20001127 <--
PT---1244650	T	20031128	2000PT-0985339	20001127 <--
ES---2202206	T3	20040401	2000ES-0985339	20001127 <--
US---6645964	B1	20031111	2000US-0722361	20001128 <--
MX2002PA05276	A	20021107	2002MX-PA05276	20020527 <--
IN2002DN00540	A	20040228	2002IN-DN00540	20020527 <--
NO2002002528	A	20020528	2002NO-0002528	20020528 <--
ZA2002004266	A	20030828	2002ZA-0004266	20020528 <--
BG---106753	A	20030228	2002BG-0106753	20020529 <--
US2004053966	A1	20040318	2003US-0658394	20030910 <--
PRAI 1999FR-0015031	A	19991129 <--		
2000FR-0010561	A	20000811 <--		
2000US-176632P	P	20000119 <--		
2000US-218059P	P	20000713 <--		
2000WO-FR03310	W	20001127 <--		
2000US-0722361	A3	20001128 <--		

OS MARPAT 135:33495

AB Nitrogen heterocycles, especially diaminotriazines, were prepared for use as telomerase inhibitors and anticancer agents. Thus, 2-amino-4,6-dichloro-1,3,5-triazine was treated with 1-methyl-4,6-quinaldinium chloride hydrochloride to give 2-amino-4,6-bis(1-methyl-4-amino-6-quinaldinio)amino-1,3,5-triazine dichloride hydrochloride which was converted to its free base. The free base had a telomerase-inhibiting IC50 of 0.25 μ M and a cytotoxic IC50 of 0.59-1.9 μ M.

IT 343876-24-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of triazinediamine derivs. as telomerase inhibitors and antitumor agents)

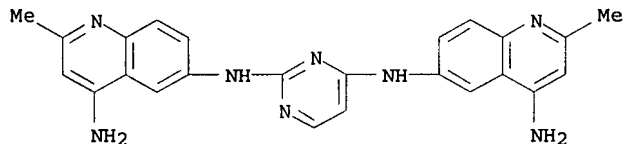
IT 343876-24-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of triazinediamine derivs. as telomerase inhibitors and antitumor agents)

RN 343876-24-4 HCAPLUS

CN 4,6-Quinolinediamine, N6,N6'-2,4-pyrimidinediylbis[2-methyl-, trihydrochloride (9CI) (CA INDEX NAME)



●3 HCl

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d bib abs hitstr l16 tot

L16 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1971:435658 HCAPLUS

DN 75:35658

TI Antimalarials. "Distal" hydrazine derivatives of 7-chloroquinoline

AU Singh, Tara; Hoops, John F.; Biel, John H.; Hoya, Wallace K.; Stein, Robert George; Cruz, Deanna R.

CS Res. Lab., Aldrich Chem. Co., Inc., Milwaukee, WI, USA

SO Journal of Medicinal Chemistry (1971), 14(6), 532-5

CODEN: JMCMAR; ISSN: 0022-2623

DT Journal

LA English

GI For diagram(s), see printed CA Issue.

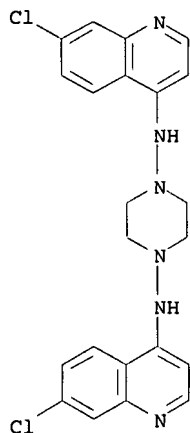
AB 7-Chloroquinolines (I) containing a hydrazine feature in the side chain attached at position 4, were prepared from 4,7-dichloroquinoline and 7-chloro-4-(3-bromo-1-methylpropylamino)quinoline by reacting with the required hydrazine, and were tested for the antimalarial activity against Plasmodium berghei in mice. 1,4-Bis(7-chloro-4-quinolylamino)-piperazine was the best, in which the end NH2 was substituted by a 2nd mol. of 7-chloroquinoline. It showed curative activity at 40 mg/kg, i.p., without toxicity even up to the maximum dose of 640 mg/kg. The I with a distal hydrazine, excluding active 1-[2-(7-chloro-4-quinolinylamino) - 2 - methylethyl] - 1 - methylhydrazine, were inactive, but were highly toxic. The I having a hydrazinium bromide feature, although found curative, were also quite toxic.

IT 23512-27-8P

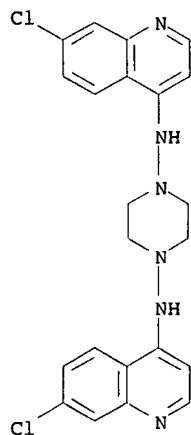
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 23512-27-8 HCAPLUS

CN 1,4-Piperazinediamine, N,N'-bis(7-chloro-4-quinoliny1)- (9CI) (CA INDEX NAME)



L16 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN
 AN 1970:3335 HCAPLUS
 DN 72:3335
 TI Antimalarial substances. XVIII. Synthetic schistosomicides. 13.
 Antimalarial and antischistosomal effects of proximal hydrazine and
 hydroxylamine analogs of chloroquine and quinacrine
 AU Elslager, Edward F.; Tendick, Frank H.; Werbel, Leslie M.; Worth, Donald
 F.
 CS Med. and Sci. Affairs Div., Parke, Davis and Co., Ann Arbor, MI, USA
 SO Journal of Medicinal Chemistry (1969), 12(5), 970-4
 CODEN: JMCMAR; ISSN: 0022-2623
 DT Journal
 LA English
 GI For diagram(s), see printed CA Issue.
 AB Representative 4-(2,2-dialkylhydrazino)quinolines, 6-chloro-9-(2,2-
 dialkylhydrazino)-2-methoxyacridines, 12-(2,2-dialkylhydrazino)benz[b]
 acridines, 2,2'-(benz[c]acridin-7-ylhydrazono)diethanol, 7-chloro-4-[
 2-(dialkylamino)ethoxyamino]quinolines, and 6-chloro-9-[2-
 (dimethylamino)ethoxyamino]-2-methoxyacridine were synthesized to enable
 an assessment of the antiparasitic effects conferred by substituting a
 hydrazine or hydroxylamine moiety for the proximal amine function of
 chloroquine, quinacrine, and 7-[3-(octylamino)propylamino]benz[c]acridine
 relatives. The compds. were isolated in 3-92% yield by the condensation
 of 4,7-dichloroquinoline, 4-chloro-6-methoxyquinoline,
 4-chloro-6-methoxyquinoline, 6,9-dichloro-2-methoxyacridine,
 12-chlorobenz[b]acridine, or 7-chlorobenz[c]acridine with the appropriate
 1,1-dialkylhydrazine or 2-(dialkylamino)ethoxyamine in phenol or EtOH.
 Among them, 6-methoxy-4-(morpholinoamino)-quinoline exhibited modest
 activity against *Schistosoma mansoni* in mice and effected a 28-51% reduction
 of live worms at drug-diet doses of 224-303 mg./kg. daily for 14 days.
 Six compds. were active against a normal strain of *Plasmodium berghei* in
 mice at doses ranging from 2.7-219 mg./kg./day for 6 days.
 7-Chloro-4-(4-methyl-1-piperazinylamino)quinoline, and 4,4'-(1,4-piper-a-
 zinediyl-diimino)bis[7-chloroquinoline] (I) were approx. 28 and 27 times
 as potent as quinine, resp., against *P. berghei*, but I was highly
 cross-resistant with chloroquine. Structure-activity relations are
 discussed.
 IT 23512-27-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 23512-27-8 HCAPLUS
 CN 1,4-Piperazinediamine, N,N'-bis(7-chloro-4-quinolinyl)- (9CI) (CA INDEX
 NAME)



=> d his

(FILE 'HOME' ENTERED AT 15:24:31 ON 28 SEP 2007)

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L1 1 US20040053966 /PN

FILE 'REGISTRY' ENTERED AT 15:25:28 ON 28 SEP 2007

FILE 'HCAPLUS' ENTERED AT 15:25:35 ON 28 SEP 2007
L2 TRA L1 1- RN : 73 TERMS

FILE 'REGISTRY' ENTERED AT 15:25:35 ON 28 SEP 2007

L3 73 SEA L2
L4 54 L3 AND NC5-C6/ES
L5 1 L4 AND (N2C4 OR NCNC3 OR NC2NC2)/ES
L6 STR
L7 0 L6
L8 36708 >=2 NC5-C6/ES
L9 2 L6 SAM SUB=L8
L10 42 L6 FULL SUB=L8
SAV TEM J394C22AF/A L10
L11 1 L10 AND L3

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L12 9 L10
L13 4 L12 AND (PY<=2000 OR AY<=2000 OR PRY<=2000)
SEL HIT RN L13 2-4

FILE 'REGISTRY' ENTERED AT 15:31:48 ON 28 SEP 2007

L14 2 E1-2
L15 1 L14 AND C22H20CL2N6

FILE 'HCAPLUS' ENTERED AT 15:33:06 ON 28 SEP 2007

L16 2 L15 AND L13

FILE 'HCAOLD' ENTERED AT 15:34:45 ON 28 SEP 2007

L17 0 L10

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